



Declaration of Performance
(according to Regulation EU No 305/2011)

Unique ID code TSNT 355J0H [Grade S355J0H / 1.0547]

Harmonised standard EN 10219-1:2006 - Cold formed welded structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery conditions (issued on the Official Journal of the European Union on 01/02/2007)

Intended use To be used in metal structures or in composite metal and concrete structures. This product is supplied with a specific inspection document 3.1 (according to EN 10204) that includes the full length non-destructive testing of the weld (as defined in table 2 of EN 10219-1). This product is suitable for being used as constituent product of a steel structure according to EN 1090. Table 1 of EN 1090-2:2018 requires a 3.1 inspection document for structural steel above S275.

Manufacturer TATA STEEL NEDERLAND TUBES BV
Registered in Netherlands No. 20022812
Registered office: Souvereinstraat 35, Oosterhout, 4903 RH, Netherlands
Website : www.tatasteelurope.com


System of AVCP System of assessment and verification of constancy of performance of the product
System 2+ (FPC Certificate No: 2814/CPR/RQA2007001/A)

Notified body Notified body No. 0343
LRQA Nederland B.V.
George Hintzenweg 77
3068 AX Rotterdam
Netherlands

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance		Harmonised technical specification	
	Nominal thickness (mm)	Value min (MPa)		
Yield strength	≤ 16	355	EN 10219-1:2006	
	Tensile strength	Nominal thickness (mm)		Values (MPa)
min max				
< 3		510 680		
Elongation	Nominal thickness (mm)	Value min (%)		
		long.		
	≥ 3 ≤ 16	470 630		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)		Impact Value min. average (J) at Test Temp (°C)
	J0H	≤ 16		27J at 0°C
Weldability (CEV)	Nominal thickness (mm)	Value max (%)		
	≤ 16	0.45		
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)		
		≤ 16	C: 0.22 Si: 0.55 Mn: 1.60 P: 0.035 S: 0.035	
	Durability is also dependent on any method of protection subsequently applied to the hollow section and the type and thickness of the coating employed.			
Tolerances on dimensions and shape	Round, square and rectangular hollow sections	In accordance with EN 10219-2:2006		

Notes: (a) FF – Fully killed steel containing nitrogen binding elements



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EN 10219-1:2006

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Performance declared for the following essential characteristics:
Yield strength: 355 MPa
Tensile strength: 470 – 630 MPa (≥ 3 mm)
Elongation: 20% (18% where Table A.3.c applies)
Impact strength: 27J at 0°C
Weldability (CEV): 0.45%
Durability: See Declaration of Performance
Tolerances on dimensions and shape: In accordance with EN 10219-2:2006

Dangerous Substances: No Performance Determined (NPD)

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Jacob Gerkema
Managing Director
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Souvereinstraat 35, Oosterhout, 4903 RH
Netherlands

Date 01/04/2024



Declaration of Performance

(according to The Construction Products (Amendment etc.) (EU Exit) Regulations SI 2020-1359)

Unique ID code TSNT 355J0H [Grade S355J0H / 1.0547]

Designated standard EN 10219-1:2006 - Cold formed welded structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery conditions (issued on the Official Journal of the European Union on 01/02/2007)

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System of AVCP System of assessment and verification of constancy of performance of the product System 2+ (FPC Certificate No: 0038/CPR/RQA20070001/A)

Approved body Approved body No. 0038
LRQA Verification Ltd.
1 Trinity Park, Bickenhill Lane
Soliuhill, West Midlands
Birmingham
B37 7ES
United Kingdom

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance		Harmonised technical specification
Yield strength	Nominal thickness (mm)	Value min (MPa)	EN 10219-1:2006
	≤ 16	355	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
		min max	
	< 3	510 680	
Elongation	Nominal thickness (mm)	Value min (%)	
		long.	
	≥ 3 ≤ 16	470 630	
Impact strength (longitudinal)	Grade	Impact Value min. average (J) at Test Temp (°C)	
	J0H	27J at 0°C	
Weldability (CEV)	Nominal thickness (mm)	Value max (%)	
	≤ 16	0.45	
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)	
	≤ 16	C: 0.22 Si: 0.55 Mn: 1.60 P: 0.035 S: 0.035	
		FF deoxidation (a)	
Tolerances on dimensions and shape	Round, square and rectangular hollow sections	In accordance with EN 10219-2:2006	

Notes: (a) FF – Fully killed steel containing nitrogen binding elements



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Performance declared for the following essential characteristics:

Yield strength: 355 MPa

Tensile strength: 470 - 630 MPa (≥ 3 mm)

Elongation: 20% (18% where Table A.3.c applies)

Impact strength: 27J at 0°C

Weldability (CEV): 0.45%

Durability: See Declaration of Performance

Tolerances on dimensions and shape: In accordance with EN 10219-2:2006

Dangerous Substances: No Performance Determined (NPD)

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